

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P793274

Luminaire Tested: LER6D50D010-EC6DR3040509035-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P793274
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER6D50D010-EC6DR3040509035-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5069.6 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

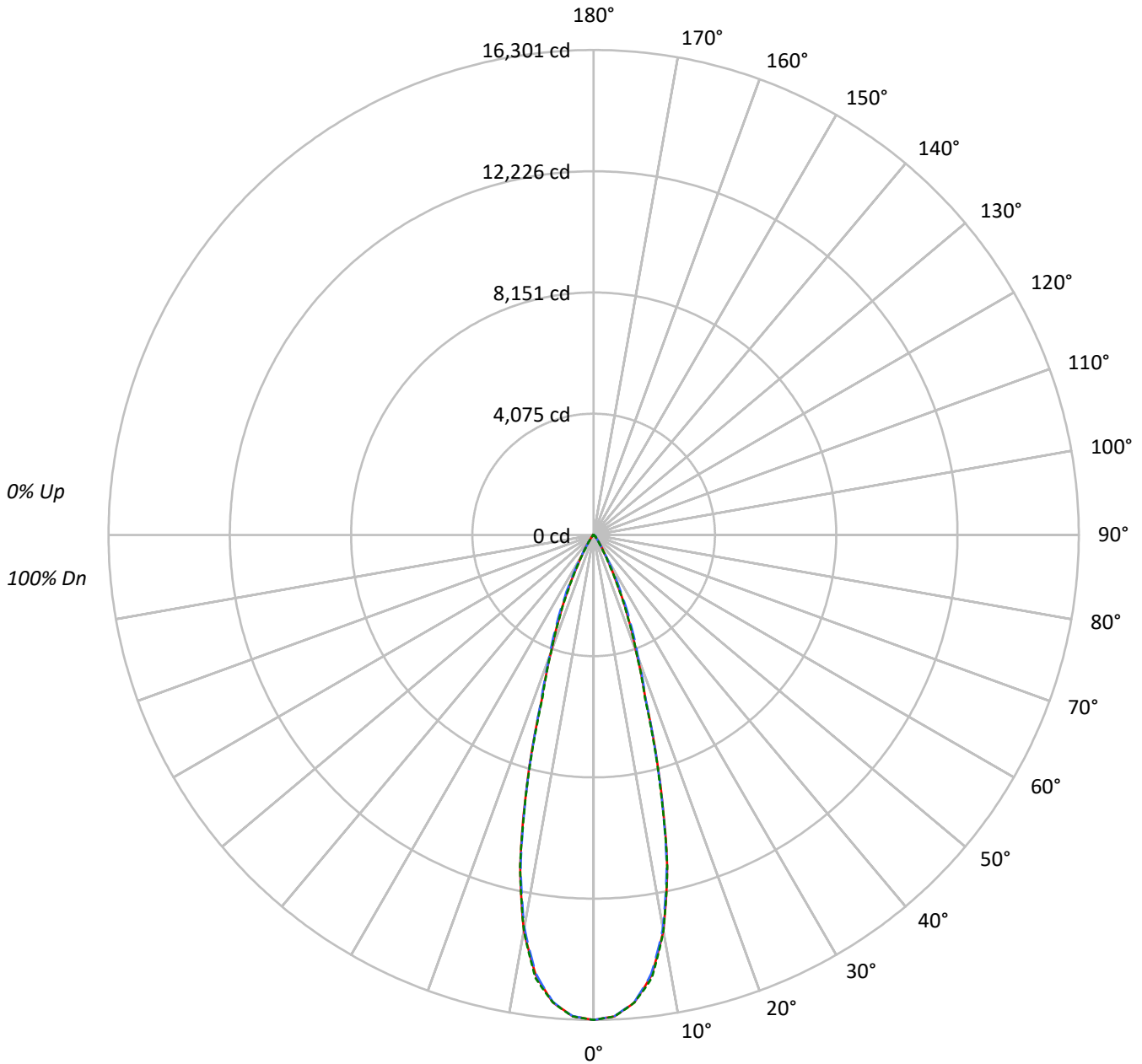


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1247757	1247757	1247757
5°	1211931	1210517	1211992
10°	1049720	1042313	1049471
15°	684886	681209	677786
20°	340567	353339	340110
25°	171556	193456	168034
30°	68684	74844	59845
35°	31854	30509	25575
40°	13759	15278	12960
45°	9699	12037	9786
50°	3334	8764	3525
55°	1922	3630	2028
60°	1347	1592	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12037 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1433.4	28.3
10°-20°	2308.6	45.5
20°-30°	997.6	19.7
30°-40°	227.4	4.5
40°-50°	78.1	1.5
50°-60°	19.1	0.4
60°-70°	4.9	0.1
70°-80°	0.5	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4739.6	93.5
0°-40°	4967.0	98.0
0°-60°	5064.1	99.9
0°-90°	5069.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5069.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16301	16301	16301	16301	16301	
5°	15773	15758	15755	15788	15774	1435
15°	8643	8539	8596	8568	8553	2314
25°	2031	2108	2291	2054	1990	972
35°	341	348	326	324	274	231
45°	90	111	111	111	90	64
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16301.3	16301.3	16301.3	16301.3	16301.3
2.5°	16193.2	16182.0	16188.4	16196.4	16199.6
5°	15773.0	15757.8	15754.6	15787.5	15773.8
7.5°	14925.5	14903.9	14871.1	14945.5	15015.1
10°	13505.7	13481.7	13410.4	13445.7	13502.5
12.5°	11409.6	11332.0	11330.4	11442.4	11427.2
15°	8642.8	8538.8	8596.4	8568.4	8553.2
17.5°	5812.0	5772.0	5848.9	5825.7	5725.6
20°	4181.0	4191.4	4337.8	4264.2	4175.4
22.5°	3050.9	3088.5	3262.2	3072.5	3002.9
25°	2031.3	2108.1	2290.6	2054.5	1989.6
27.5°	1249.3	1284.5	1469.4	1233.3	1198.1
30°	777.1	759.5	846.8	726.7	677.1
32.5°	509.8	487.4	515.4	462.6	422.6
35°	340.9	348.1	326.5	324.1	273.7
37.5°	212.9	244.9	216.1	230.5	176.1
40°	137.7	177.7	152.9	168.9	129.7
42.5°	112.8	136.9	125.7	133.7	115.2
45°	89.6	111.2	111.2	111.2	90.4
47.5°	49.6	74.4	95.2	76.0	52.8
50°	28.0	37.6	73.6	39.2	29.6
52.5°	19.2	21.6	50.4	22.4	20.0
55°	14.4	15.2	27.2	16.0	15.2
57.5°	11.2	12.0	14.4	12.0	11.2
60°	8.8	8.8	10.4	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)